

RUSSIAN, 1971.

Stabilizing of lyophobic sols and their coagulation by electrolytes.
Part 5. Coagulation of electrically charged sols by electrolytes
of various valence types. Coll. conf. 20 no. 2 157-159. M.: Sp. 165.
1971. 38 p.

1. Kiyeva-Ly. Tekhnicheskoye ustroystvo legko upravlyayemosti.

BARBOV, V.M.

Theory of the stability of lyophobic sols and their coagulation by electrolytes. Part 6: Regularities of coagulation of strongly charged lyophobic sols under the effect of a mixture of electrolytes. Koll.zhur. 27 no.3:311-319 My-Je '65.

(MIRA 18:12)

1. Kiyevskiy tekhnologicheskii institut legkoy promyshlennosti. Submitted Jan. 24, 1963.

BARBOY, V.M.

Stability of lyophobic sols and their coagulation by electrolytes.

Part 8: Coagulation of lyophobic sols by electrolyte mixtures.

Koll. zhur. 27 no.5:643-651 S-O '65. (MIRA 18:10)

1. Kiyovskiy tekhnologicheskoy Institut legkoy promyshlennosti.

BARKOV, V.M.

Theory of the stability of lyophobic sols and their
coagulation by electrolytes. Part 7: Effect of the
charge of secondary ions on the coagulating action of
electrolytes. Koll. zhur. 27 no.4:494-498 J1-Ag '65.
(MIRA 18:12)
1. Kiyevskiy tekhnologicheskoy institut legkoy promyshlennosti.
Submitted May 24, 1963.

GLAZMAN, Yu.M.; BARAN, A.A.; BARBOY, V.M.; STRAZHESKO, D.N.

Sorption of counterions in the coagulation of iron hydroxide
sols. Koll. zhur. 27 no.4:513-519 J1-Ag '65.

(MIRA 18:12)

1. Institut fizicheskoy khimii AN UkrSSR imeni L.V. Pisarzhevskogo
i Kiyevskiy tekhnologicheskoy institut legkoy promyshlennosti.
Submitted October 2, 1964.

L 25728-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6009863

SOURCE CODE: UR/0413/66/000/004/0057/0057

INVENTOR: Yegorov, B. A.; Barbov, V. M.; Yudin, A. V.

ORG: none

TITLE: Preparation of fiber and film with polyformaldehyde. Class 29, No. 178943

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 57

TOPIC TAGS: polyformaldehyde, polyformaldehyde fiber, polyformaldehyde film, diphenylamine

ABSTRACT: An Author Certificate has been issued describing a method of preparing fiber and film with a polyformaldehyde base by forming a spinning solution consisting of polyformaldehyde and a solvent plasticizer. To improve the physical and mechanical properties of the fiber and film, diphenylamine is suggested as the solvent plasticizer.

[LD]

SUB CODE: 11/ SUBM DATE: 02Jul64/

Card 1/1

UDC: 677.499

1984. 1. 1.

Study of the stability of lyophobic sols and their coagulation
by electrolytes. Part 4. General criterion of the stability of
ion-stabilized disperse systems. Kolloid. zhur. 26 no. 4: 409-
415. 1964. (MIRA 1:9.)

1. Khimicheskii tekhnologicheskii institut legkoy promyshlennosti.

BARBOSHIN, Ye. A.

USSR/Mathematics - Asymptotic stability

FD-640

Card 1/1 : Pub. 85 - 7/12

Author : Barboshin, Ye. A., and Krasovskiy, N. N. (Sverdlovsk)

Title : Existence of the Lyapunov functions in the case of asymptotic stability in the whole

Periodical : Prikl. mat. i mekh., 18, 345-350, May/Jun 1954

Abstract : Treats the system of equations $dx/dt = X(x,t)$. Demonstrates that even in the case where the right part of this equation depends upon the problem of the existence of the Lyapunov function is solved in the positive sense for sufficiently general assumptions on the system. His formulation is similar to that of I. G. Malkin ("Problem of the conversion of A. M. Lyapunov's theorem on asymptotic stability," PMM, 18, No. 2, 1954). Five references, including I. Massera, Liapounoff's condition of stability, Annals of Mathematics, No. 50, No. 3, 1949.

Institution : --

Submitted : March 16, 1954

IVAN, I.M., prof.; TELNICEANU, A., dr.; MAGUREANU, E., dr.; TOMA, R.,
dr.; BORDEIANU, P., dr.; CALOMFIRESCU, AL., dr.; BARBU, A., dr.;
MANOLESCU, Maria, chim.

Epidemiological aspects of inframicrobial epidemic hepatitis
in the city of Bucharest in 1960. Med. inter., Bucur 13 no.5:
703-710 My '61.

1. Catedra de epidemiologie. I.M.F., Bucuresti (for Ivan, Telniceanu,
Magureanu, Toma). 2. Sanepidul central al Capitalei (for Bordeianu,
Calomfirescu, Barbu, Manolescu).
(HEPATITIS, INFECTIOUS statistics)

NESTORESCO, N.; GRIGORIU, T.; BADULESCO, Elisabeta; SOLOMON, I.; BARBU, A.;
VASILIU, Ecaterina; IONESCO, Maria; CALOMFIRESCU, A.; BORDEIRAN, P.;
ALLESSEANU, Gh.; PARAITESCO, Gh.

The specific resistance produced by typhoid-paratyphoid vaccination compared with the immunity status of former typhoid fever patients as a criterion of evaluation of the effectiveness of T.A.B. vaccine. Arch. Roum. path. exp. microbiol. 20 no.3:321-325 S '61.

1. Institut "Dr. I. Cantacuzino" (for Nestoresco). 2. Section de Bacteriologie du Centre Sanitaire antiepidemique de Bucarest (for Grigoriu, Badulesco, Solomon, Barbu Vasiliu, Ionesco). 3. Section d'Epidemiologie du Centre Sanitaire antiepidemique de Bucarest.
(TYPHOID immunology) (PARATYPHOID FEVERS immunology)

POMIRLEANU, V.; BARBU, Alexandrina

Petrologic structural and geothermometric research in the mineralization area of the Nistru Valley Basin (Baia Mare). Studii cerc geol 7 no.3/4: 597-608 '62.

POMIREANU, V.; BARBU, Alexandrina

Geothermometric and structural petrologic research in the mineralization zone of the Valea Ilba Basin. Anal St Jassy II 10 1-12 '64.

1. Submitted October 26-27, 1963.

1955, 6.

Fulfillment of the plan for standardization in 1955. p. 4.

Vol. 2, no. 1. Jan 1956
STANDARDIZAREA
Bucuresti, Rumania

Source: East European Accession List, Library of Congress
Vol. 5, No. 3, August 1956

1957, 3.

perspectives for the standardization of a prototype which lower surface tension.

2. 101 (1957-1958) (Document 1, 1957) Vol. 3, No. 11, Nov. 1957

33: Monthly Index of East European Accessions (1957) Vol. 7, No. 5, 1958

MITROIU, O.; BARBU, C.; POPA, M.; COSTANDACHE, D.; SFERDEAN, O.;
GHETU, V.

Adenoviral antibodies occurring in the course of various virus diseases.
Studii cerc inframicrobiol Special issue-supplement to 12:265-269
161.

1. Institutul de inframicrobiologie al Academiei R.P.R.

(ADEMOVIRUS INFECTIONS)
(ANTIGENS AND ANTIBODIES)

+

MITROIU, O.; BARBU, C.; POPA, M.; SFERDEAN, O.

Etiological and serological studies of some affections accompanied by rashes in children. Studii cerc inframicrobiol Special issue-supplement to 12:271-274 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R.

(ADENOVIRUS INFECTIONS) (EXANTHEMATA)

CAJAL, N.; MITROIU, O.; BARBU, C.; COSTANDACHE, D.; POPA, M.

Reactions of hemagglutination as comparatively studied with the M. Rhesus red cells and the one-day-old chickens in epidemic hepatitis. Studii cerc inframicrobiol Special issue-supplement to 12: 301-306 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R., Institutul de medicina si farmacie, Bucuresti. 2. Membru al Comitetului de redactie si radactor responsabil adjunct, "Studii si cercetari de inframicrobiologie" (for Cajal).

(HEPATITIS, INFECTIOUS)
(BLOOD—AGGLUTINATION)

CAJAL, N.; MITROIU, O.; BABA, C.; COPELOVICI, Y.; POPESCU, G.; BARBU, C.

Some methods used in laboratories for the diagnosis of viral epidemic hepatitis. Studii cerc inframicrobiol Special issue-supplement to 12:307-314 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. 2. Membru al Comitetului de redactie si redactor responsabil adjunct, "Studii si cercetari de inframicrobiologie" (for Cajal).

(HEPATITIS, INFECTIOUS)

MITROIU, O.; BARBU, C.; POPA, M.

Etiological and serological investigations during certain diseases
with an eruptive syndrome in children. Rev. sci. med. 6 no.1/2:65-68
'61.

(MEASLES virology) (ADENOVIRUS INFECTIONS)

MITROIU, O.; BARBU, C.; POPA, M., en collatoration avec CONSTANDACHE, D.;
SFERDEAN, O.; GHETU, V.

Research on anti-adenovirus antibodies during various viral diseases.
Rev. sci. med. 6 no.1/2:69-72 '61.

(ADENOVIRUS INFECTIONS immunology)
(VIRUS DISEASES immunology)

7
POLIO

"I. IONESCU, G. G. G. and G. MITROIU, Institute of Microbiology
(Inst. de Infirmitati Microbiologice) and Institute of Medicine and
Pharmacy (Institutul de Medicina-Farmaceutica) Bucharest

"Incidence of Karaganda AB IV Virus Neutralizing Antibodies in the
Population of the Romanian People's Republic."

Bucharest, Studii si Cercetari de Infirmitati Microbiologice, Vol. 13, No. 6, 1962;
pp. 417-420.

Abstract [English summary modified]: Sera of 183 persons were tested for
neutralizing antibodies to the virus, first isolated in Karaganda in
1955 from fatal cases of clinical poliomyelitis: 73 sera were positive,
frequency increasing with age (less than 20% positive at age below 2,
over 40% positive in persons older than 6 years). Of the Karaganda
sera, 2 had no polio antibodies to any of the 4 strains, and 18 sera
positive to 3 polio strains had no anti-Karaganda antibodies, which
could suggest that this is an independent group of enteroviruses. Table,
2 graphs, no references.

CAJAL, N.; BARBU, C.; MITROIU, O.

Incidence of neutralizing antibodies against the AB IV Karaganda virus in some localities of the Rumanian People's Republic. Stud. cercet. inframicrobiol. 13 no.6:695-699 '62.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R.

(VIRUS DISEASES) (ANTIBODIES)

MITROIU, O.; BARBU, C.; CAJAL, N.; DEMETRESCU, R.; IONESCU, T.; POPA, M.;
in colaborare cu RADULESCU, M.; DOBRESCU, G.; ONITIU, L.

Etiological investigations of epidemic hepatitis. I. The study of
several viruses cultivated in cell cultures from cases of epidemic
hepatitis. Stud. cercet. inframicrobiol. 13 no.3:319-327 '62.

1. Comunicare prezentata la Institutul de inframicrobiologie al
Academiei R.P.R.

(HEPATITIS, INFECTIOUS)

(HEPATITIS VIRUSES)

(VIRUS CULTIVATION)

(TISSUE CULTURE)

L 38095-56

ACC NR. AP6028691

SOURCE CODE: RU/0007/66/017/001/0001/0009

AUTHOR: Barbu, C. (Engineer); Popescu, I. (Engineer); Draghicescu, A. (Engineer) *JK*

ORG: none

TITLE: Contributions to the observation system in the mass spatial sounding method

SOURCE: Petrol si gaze, v. 17, no. 1, 1966, 1-9

TOPIC TAGS: seismology, seismic wave

ABSTRACT: The authors describe the new corridor observation system of seismic sounding and detail its technical-economic advantages over the classic methods of surface observation. An explanation is suggested for the appearance of the focussing of vectors with large displacements, on the basis of multiple causes related to accidental and systematic errors that affect the values of the reflected elements. Orig. art. has: 14 figures. [Based on author's Eng. abst.] [JPRS: 36,452]

SUB CODE: 08 / SUM DATE: none / ORIG REF: 007

Card 1/1 *MLP*

RUMANIA

616.921.5

BRONITKI, A., BARBU, Cornelia, POPESCU, Ana, MOISA, I., MALIAN, A., BADESCU, Doina, and STEFANOV, I., of the Institute of Inframicrobiology (Institutul de Inframicrobiologie) of the Academy of the Socialist Republic of Rumania (al Academiei Republicii Socialiste Romania).

"Laboratory Investigations of the Influenza Epidemic of January-February 1966 in Bucharest."

Buchares, Studii si Cercetari de Inframicrobiologie, Vol 17, No 5, 66, pp 365-370.

Abstract: During the epidemic, the authors isolated 14 strains of type B influenza viruses. In an analysis of 200 human sera during the pre-epidemic period an approximately equal percentage of anti-A₂ and anti-B antibodies was found, while during the epidemic there was a percentage decline of positive A₂ reactions and a marked increase in the percentage of anti-B₂ antibodies. Includes 2 tables and 5 references, of which 3 Rumanian and 2 English-language. -- Manuscript submitted 4 June 1966.

1/1

MERCEA, V.; URSU, I.; BAREU, D.

Study of some isotopic effects by means of a micromanometer with
a paddle. Studii cerc fiz ll no.2:468-478 '60. (EEAI 10:1)
(Micromanometer) (Isotopes) (Water)

IVANCENKO, O.; BOGDAN, V.; BARBU, E.

Bronchography with barium sulphate. Rumanian M Rev. no.2:34-36 Ap-Je '60.

1. This work was carried out at the Hospital of Tuberculosis, Sibiu.
(BARIUM SULFATE) (BRONCHI radiography)

BARBU, Eneea, ing.

Methods using direct current for determining the faults occurring
in telecommunication circuits. Telecommunicatii 5 no.3:109-112
My-Je '61.

R/011/62/006/005/001/003
A065/A126

9.3277

AUTHORS: Marinescu, Nicolae, Barbu, Enea, and Necula, Nicolae

TITLE: Analysis of some decoders and the diagrams derived for the generation of some codes

PERIODICAL: Automatica și Electronica, v. 6, no. 5, 1962, 185 - 196

TEXT: An analysis is made of decoders with three bistable elements and decoders with four bistable elements, equipped with diodes and resistors, corresponding to memory circuits provided with electro-magnetic relays and transistors, or eventually electron tubes. The decoders are used in telephony and automatic systems. In the case of both types, the authors examine a simplification of the decoders, as well as a reduction of the number of outputs and the automatic coding of the information. The simplification of the electronic decoder causes the reduction of the output-pulse amplitude, but considerably improves the triggering possibility of the circuits in such a way that the effect of the decoder on the trigger circuit becomes more damped. The reduction of the number of outputs by treating the multipoles as dipoles and vice versa should be considered as an au-

Card 1/2

BANBU, Eneea, Ing.; IAROVICI, Idy, Ing.

Possibilities of simplification and modernization of the
7 A-2 automatic telephone exchange register. Telecommunicatii
8 no. 4:166-176 J1 '64.

BARBU, Eneea, ing.; NEGULA, Neculae, ing.

Test circuit incorporation in logic relations and schemes.
Telecomunicatii 7 no.5:219-226 S-0'63

L 2751-65

ACCESSION NR: AP5021319

RU/0011/64/008/006/0271/0279

AUTHOR: Barbu, Eneea (Engineer)

TITLE: Synthesis and application of a logical non-coincidence circuit

SOURCE: Automatica si electronica, v. 8, no. 6, 1964, 271-279

TOPIC TAGS: logic circuit, mathematic model

ABSTRACT: The author describes the synthesis of a non-coincidence circuit starting from its logical formula, then uses the logical relations obtained to establish general symbolic schemes with UNILOG elements and interdiction structures. The uses of logical non-coincidence circuits are also discussed. Orig. art. has 31 figures and 17 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: DP, MA

NO REF SOV: 000

OTHER: 004

JPRS

llc
Card 1/1

L 1219-66

ACCESSION NR: AP5025822

RU/0005/65/000/004/0097/0105

AUTHOR: Barbu, Eneea (Engineer)

18

TITLE: Contributions to the determination of logical circuits equivalent to teleprinter mechanisms

SOURCE: Telecomunicatii, no. 4, 1965, 97-105

TOPIC TAGS: logic circuit, electronic equipment, electronics, printing machinery

ABSTRACT: In the determination of the logical circuits equivalent to teleprinter mechanisms, the author shows how to replace some mechanical parts or subassemblies by static devices, a step in the design of electronic teleprinters. The logical circuits' operation is also analyzed on the basis of the rules of logic. Orig. art. has: 9 figures and 9 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC, IE

NR REF SOV: 000

OTHER: 008

JPRS

ml
Card 1/1

L 31211-66 EWP(c)/EWP(v)/T/EWP(k)/EWP(l) IJP(c)
ACC NR: AP6022612 SOURCE CODE: RU/0005/65/000/010/0410/0414
AUTHOR: Barbu, Eneea, (Engineer) 51
ORG: none 8
TITLE: New method for determining cable defects using pulse techniques 14
SOURCE: Telecommunicatii, no. 10, 1965, 410-414 25
TOPIC TAGS: transmission line, pulse signal, insulated wire
ABSTRACT: The author describes a method for the localization of inhomogeneities in a homogeneous transmission line by means of test pulses. In this method, the usual linear time basis is replaced by a circular time basis, and the spot speed is variable; the interval between the departure of the test pulse and the arrival of the reflected pulse is measured in terms of the period of the circular time base. Orig. art. has: 8 figures and 11 formulas. [Based on author's Eng. abst.] [JPRS]
SUB CODE: 09 / SUBM DATE: none

Card 1/1

UDC: 621.374: 621.315.2
0915 0633

BARBU, G.

Rumanian contribution to the work of the 15th International Congress of the
History of Medicine. p. 56.
(Ocrotirea Sanatatii In R.P.R., Vol. 7, No. 1. Jan/Mar. 1957, Bucuresti,
Rumania)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug. 1957. Uncl.

BARBU, G.; BRATESKU, G. (Bukharest)

Russian physicians in the control of a plague epidemic in the Rumanian principalities in 1828-1829. Sov.zdrav. 20 no.4:58-62 '61.

(MIRA 14:5)

1. Iz otdela istorii meditsiny Bukharestskogo instituta gigiyeny i zdravookhraneniya.

(RUMANIA--PLAGUE)

BARBU, G.

SURNAME, Given Names

Country: Rumania

Academic Degrees: -Dr.-

Affiliation: -not given-

Source: Bucharest, Igiena, Vol IX, No 4, Sep-Oct 1961, pp 371-376.

Data: "Preliminary Observations on a History of Public Health in
Bucharest."

GPO 981643

RUMANIA

BARBU, G., Dr and BRATESCU, G., Dr [affiliation not given]

"Contribution of Russian Physicians to the Control of the 1828-1829 Plague Epidemic in the Rumanian Principalities."

Bucharest, Microbiologia, Parazitologia, Epidemiologia,
Vol 8, No 1, Jan-Feb 1963, pp 81-86.

Abstract: An article reviewing the 1828-1829 plague outbreak and the efforts of Rumanian and Russian physicians to combat it. .

1/1

BAMBU, Gh., ing.

Thin sheets used for roofs. St. at Ten Ma 15 no. 2. 18-19 P 163.

BARBU, I.

Contributions to the study of pale genetic microfauna in Northwest Transylvania. p. 155.
(ANALELE. SERIA ATIINTELOR NATURII. Rumania. Vol. 5, no. 10, 1956)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

BARBU, I.; SAPHIER, I.

On the margin of the article "New Soviet Concepts of Classification of Coal and Their Application in Rumania." p. 136. ENERGETICA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si al Ministerului Energiei Electrice si Industriale Electrotehnice) Bucuresti. Ceased publication with v. 2, no. 3, Mar. 1954.

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 4, no. 12, December 1955.

BARBU [1]

RUMANIA / Chemical Technology. Processing of Solid Fuels.

H-22

Abs Jour : RZhKhim., No 12, 1958, No 40942-K

Author : Barbu

Inst : Not given

Title : Coke, Tar, Gas and Other Products from the Processing of Coal.

Orig Pub : Bucuresti, Ed. tehn., 1955, 104p., fig., 4.80 lei.

Abstract : Not given.

Card 1/1

8

BARBU, I.

1957. NEW WAYS FOR THE UTILIZATION OF LOW-GRADE COAL: PRODUCTION OF
COKE FROM HEAVILY COKING COAL. Barbu, I. and Stefanescu, I. (Rev. Minister,
1955, vol. 6, (8), 255-271; (10), 255-271; abstr. in Gubokant, 28 Apr. 1956,
vol. 92, 530). Briquettes are produced from semi-coke, and subsequently
carbonized. The influence of composition and properties of these briquettes
on the hardness of coke is considered.

2
10000

JM. Lee

BARBU, I.

Manufacture of coke from noncoking coal. p.8. TEHNICA NOUA.
(Asociatia Stiintifica a Inginerilor si Tehnicienilor) Bucuresti. Vol. 2,
no. 27 Dec. 1955

So. East European Accessions List Vol. 5, No. 9 September, 1956

BARBU, I.

Coke Obtained from Non-coking Coal (Part 2). Revista Minelor (Mining Journal), #10:338: Oct 55

BARBU I.

Actual problems in manufacturing metallurgic coke. p. 39. METALURGIA SI CONSTRUCTIA DE MASINI. (Ministerul Industrii Metalurgice si Constructiilor de Masini si Asociatia Stiintifica a Inginerilor si Tehnicienilor) Bucuresti. Vol. 8, no. 4, Apr. 1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 5, No. 11, November, 1956.

RUMANIA / Chemical Technology, Chemical Products and H
Their Application, Part 3. - Treatment of
Solid Combustible Minerals.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 62165.

Author : I. Barbu, I. Stefanescu, Narcissa Nistor.

Inst : ~~Not given.~~

Title : Coke of Non-Coking Coals. Part IV. Effect of
Additions of Mineral Oil Coke and Binders on
Coke Briquet Quality.

Orig Pub: Rev. minerol, 1956, 7, No 12, 641 - 643.

Abstract: The experimental data of using mineral oil cokes
and various binders for the production of metal-
lurgical coke from local non-coking coals are
presented. The applied method of introduced
semicoke into charges is briefly described.
See part III in RZhKhim, 1958, 30092.

Card 1/1

BARBU, I.; REINFORM, G.

An apparatus for the determination of benzene and solvents in gases.

P. 204 (REVISTA DE CHIMIE) (Bucuresti, Rumania) Vol. 8, No. 3, Mar. 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

ROMANIA/ Chemical Technology, Chemical Products and
their Applications. Treatment of Solid Fuels

H-22

Abstr Jour : Ref Zhur - Khimiya, No 11, 1958, 37425

Author : Barbu I., Forizs St., Miortoscu D.

Inst : Not given

Title : Preparation of Coking Charges.

Orig Pub : Metalurgia si constr. mas., 1957, #3, 27-31, 57

Abstract : A relation between the granular structure of raw materials
charge, quality, and uniformity of the resulting metallurgical
coke charge containing poorly coking coals, is given.
Average granular composition of coking charges accepted in
different countries is shown. Also described are various
means of selective preparation of charges. Research results
dealing with charge's quality as a function of grain

Card : 1/2

RUMANIA / Chemical Technology, Chemical Products and
their Applications, Treatment of Solid Fuels

H-22

Libs Jour : Ref Zhur - Khimiya, No 11, 1958, 37425

Abstract : structures are described, while the importance of optimum
form of grain structure curve is stressed.

Card : 2/2

/

ROMANIA/Chemical Technology - Chemical Products and Their H.
Application - Treatment of Solid Mineral Fuels.

Abs Jour : Ref Zhur - Khimiya, No 9, 1958, 30092
Author : Barbu, I., Nestor, N., Stefanescu, I.
Inst :
Title : Coke from Non-Coking Coals. Part III. Effect of the
Addition of Iron Ore.
Orig Pub : Rev Minelor, 7, No 6, 278-281 (1957) (in Romanian with
summaries in German and Russian)
Abstract : The author discusses on the basis of literature data the
possibility of the production of coke briquettes from
non-coking coals with the addition of Fe oxides (iron
ore and blast furnace dust).
For part II see RZhKhim, 1957, 72450.

Card 1/1

48

RUMANIA/Chemical Technology - Processing of Solid Fossil Fuels. H-22

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 82931

Author : Barbu, I.

Inst : -

Title : Coke from Non-Caking Coal. V. The Effect of an Increase in Non-Caking Coal Content and the Addition of Coke Dust Upon the Quality of Coke.

Orig Pub : Rev. minelor., 1957, 8, No 4, 189-191.

Abstract : The preparation of a coke-briquet suitable for metallurgy from a charge containing (in %) has been investigated: 42-72 of non-caking coal, 10-40 of rich coal, 15 of binding coal and 5-10 of coke fines. The possibility of preparing a strong coke-briquet without the addition of semi-coke was demonstrated, however, the addition of rich coal must be brought to 30-40%. To successfully prepare a lean charge finely powdered coke dust-waste product in the process of coke briquetting is introduced.

Card 1/2

RUMANIA/Chemical Technology - Processing of Solid Fossil Fuels. H-22

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 82931.

A material balance is given for a two-step process (briquetting and coking) computed for the preparation of 10,000 tons of coke briquet; the tar from carbonization (6,500 tons) is utilized as a binding material for briquetting.

For Communication IV, see R.Zh. Khim., 1958, 62165.

Card 2/2

- 10 -

RUMANIA/Chemical Technology - Processing of Solid Fossil Fuels. H-22

Abs Jour : Ref Zhur - Khimiya, No 22, 1958, 82929

Author : Barbu, I., Reinhorn, G.

Inst : -

Title : The Yields of Chemical Products in the Laboratory Carbonization of a Coal Charge with the Addition of Mazut.

Orig Pub : Rev. chim., 1957, 8, No 8, 546-547.

Abstract : Described are the product yields from carbonizing a charge consisting of 840 grams of gas coal (lupeni) and 160 grams of a semi-coke with the addition of water and mazut in following amounts (in grams): 80 and 0.0; 60 and 20; 40 and 40; 20 and 60. It was established that with an increase in the mazut addition, the yields of tar, benzene and gas are noticeably increased. The addition of the mazut neither essentially effects the strength of coke, not its S content. It is assumed that the latter fact is connected with the cracking conditions in a laboratory oven, which

Card 1/2

- 8 -

RUMANIA/Chemical Technology - Processing of Solid Fossil Fuels, H-22

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 82929

[conditions] differ from those in industry; it is expected that the addition of mazut to a charge should decrease the S content in coke. The mazut addition to a charge is useful from an economical standpoint and is recommended to be applied in coke plants.

Card 2/2

RUMANIA / Chemical Technology, Chemical Products and H
Their Application, Part 3. - Treatment of
Solid Combustible Minerals.

Abs Jour: Ref Zhur-Khimiya, N5118, 1958, 62164.

Author : Ilie Barbu, Ion Stefanescu.

Inst : Not given.

Title : Production of Coke of Non Coking Coal.

Orig Pub: Metalurgia si constr. mas., 1957, 9, No 1,
41 - 50.

Abstract: Various ways to increase the number of coal kinds
for coking are evaluated. The developed method
of producing metallurgical coke from Rumanian
non-coking coals is described in detail. The
method is based on preliminary semicoking of
coal, briquetting of semicoke with the addition
of a binder (4.5%) and coking of the briquets.

Card 1/2

BARBU, I.; FORIZS, S.; MIORTESCU, D.

Additions to the problem of preparing a charge for coking; the effect of the granulation curve on the quality of coke. p. 27.

(METALURGIA SI CONSTRUCTIA DE MASINI. Vol. 9, no. 3, Mar. 1957, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957
Uncl.

BARBU, I.

International classification of pit coal. p. 338
(STANDARIZAREA. Vol. 9, no. 7, July 1957, Rumania)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 12, Dec. 1957
Uncl.

Country : ROMANIA H-22
 Category : Chemical Technology. Chemical Processing of
 Solid Fossil Fuels
 Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 50980
 Author : Parbu, I.; Teodorescu, N.
 Institute : -
 Title : Coke from Non-Coking Coals. VI. Commercial
 and Pilot Installations for Coking
 Orig Pub. : Rev. minelor., 1958, 9, No 9, 414-419
 Abstract : Description of equipment for the production
 of coal briquettes and various furnace designs
 for the commercial and pilot coking, including
 a furnace for coking of brown coal briquettes
 employing the Rambler-Bilkenrode method used
 in GDR, and a semi-commercial furnace develo-
 ped by the Tokyo Coal Institute for coking
 briquettes made of Japanese coals. Previewed
 also are certain characteristics of coking
 mixtures. Previous article appeared in Ref.
 Card: 1/2

BARBU, I.; TONCULESCU, N.

Coke from noncoking coal. VIII. Results in coke briquette manufacture obtained in semi-industrial and pilot tests. P 154.

REVISTA MINIER. (Ministerul Minelor, Ministerul Industriei Petrolului si Chimiei, Directia Exploatarilor Miniere si Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania) Bucuresti, Romania. Vol. 10, no. 4, Apr. 1959.

Monthly List of East European Accessions (EMEA) LC. Vol. 8, no. 9, Sept. 1959.

Uncl.

R/004/60/000/007/001/002
A231/A026

AUTHORS: Barbu, Ion, Engineer, Researcher (Bucharest)

TITLE: Electronic Devices for the Control of Switchgears in Wear Testing

PERIODICAL: Electrotehnica, 1960, No. 7, pp. 243-246

TEXT: The author presents in this article the schemes and the calculation of two electronic devices used in the testing of switchgears for mechanical and electrical wear, for tensile stress as well as fusion tendency and service life of contacts. Both devices have been built by the author at the High Voltage Section of the ICET. The first scheme is a periodic impulse generator (Fig. 1), and the second a toggle relay (releu basculant), (Fig. 2). Reference is made to the operation of the schemes used and to the calculation of the main elements, i.e., the capacity C (relation 1), and the resistances R_1 and R_2 (relations 2, 3 and 4) of both schemes. The periodic impulse generator was devised for 6.3 and 1.2 sec cycles, which correspond to 600, 1,200 and 3,000 connections per hour. The calculation results are compiled in Table 1. The toggle relay was devised for 600, 1,200 and 3,000 connections per hour which correspond to 6.3 and 1.2 sec periods. The calculation results are presented in Table 2. Figure 3 shows the testing scheme for the fusion tendency of the switchgear contacts. The peri-
Card 1/4

R/004/60/000/007/001/002
A231/A026

Electronic Devices for the Control of Switchgears in Wear Testing

odic impulse generator was first used for the determination of the mechanical life of a-c relays. The toggle relay was used for the determination of the wear of switchgears and, with the aid of a cathode oscillator, for the control of time constants of some transient phenomena. The two devices are more advantageous than the usual synchronous motors with speed reducers. They can be used from 300 to 3,000 connections per hour with a relative connecting duration of 24, 40, 60 and 75 % by a simple connection of some chemical resistances to a switchgear. The author finally establishes the period of the generated impulses (a.1 - a.4) and the period of the toggle relay (a.5 - a.7). There are 3 figures, 2 tables, 2 photos and 5 references: 3 Rumanian, and 2 German.

ASSOCIATION: Institutul de Cercetări Electrotehnice (Electrotechnical Research Institute) in Bucharest

SUBMITTED: April 8, 1960

Card 2/4

R/004/60/000/007/001/002
A231/A026

Electronic Devices for the Control of Switchgears in Wear Testing

Figure 1: Wiring diagram of periodic impulse generator; Diagram is self-explanatory

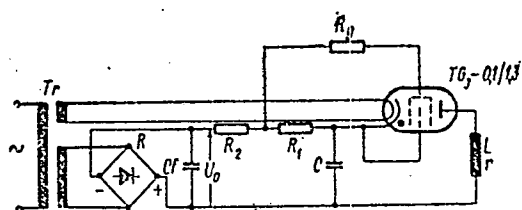
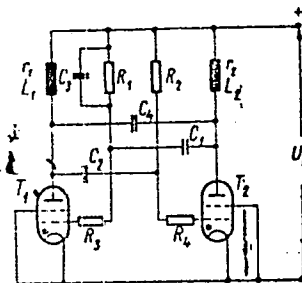


Figure 2: Wiring diagram of a toggle relay; Diagram is self-explanatory

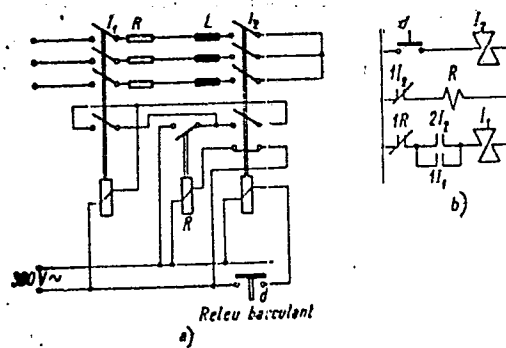


Card 3/4

R/004/60/000/007/001/002
A231/A026

Electronic Devices for the Control of Switchgears in Wear Testing

Figure 3: Testing scheme for fusion tendency
of switchgear contacts;
Legend: releu basculant = toggle relay



Card 4/4

S/196/62/000/020/017/G21
E194/E155

AUTHORS: Pesici, Mihail, and Barbu, Ion

TITLE: Low-voltage test station of the Electrotechnical
Scientific Research Institute

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika,
no.20, 1962, 25, abstract 20 I 146. (Electrotehnica,
v.9, no.11, 1961, 386-395) (Rumanian, summaries in
Russian, German, French and English).

TEXT: The circuit and equipment for determining the
rupturing capacity of low voltage circuit breakers are described.
The installation (see diagram) takes three-phase power through a
stepdown transformer 1, with natural oil cooling. By reconnecting,
transformer outputs can be obtained at 242, 418 and 556 V for.
testing circuit-breakers of different rated voltages. The short-
circuit output at the transformer terminals at 556 V with a short-
circuit current of 33.9 kA_{eff} is about 25 mVA. The low- and high-
voltage windings are of the disc type, sandwiched on the core to
reduce the electrodynamic forces which act upon them. The variable
reactance 2 has a copper winding with a reactance of
Card 1/4

Low-voltage test station of the ... S/196/62/000/020/017/021
E194/E155

450 x 10⁻³ ohms per phase and ohmic resistance of 45 x 10⁻³ ohms. The contactor 3 which shorts the circuit is rated for 30 kA_{eff} and 550 V: its closing time is 0.03 seconds. The construction of the contacts almost completely eliminates bouncing. The programming switch 4 carries out a series of commands by means of an electronic-mechanical selector switch through three independent channels. For preliminary test runs the control board 5 controls the apparatus in the equipment in any required sequence, and provides the change-over to the programmed switch for automatic testing. All the circuit-breakers and isolators have electro-pneumatic remote control. Tests have been carried out to determine the rupturing capacity of automatic low-voltage circuit-breakers, the electro-dynamic stresses in high-voltage circuit breakers, and also the rupturing capacity and current-limiting effect of high-power low-voltage fuses. Before each test the equipment is calibrated to determine the maximum and effective short-circuit current values, allowing for the supply conditions and test circuit impedance. A circuit is given for overload testing of fuses. The procedure consists in heating

Card 2/4

Low-voltage test station of the ... S/196/62/000/020/017/021
E194/E155

the fuse with a test current at 99% of its rated voltage and then automatically applying 100% voltage at this same current as the fusible element is about to melt. The melting conditions thus closely resemble those met in service. The equipment can also test wear of contacts and switching apparatus. For this purpose the electronic and mechanical control apparatus was constructed and a circuit developed. To record the processes of circuit interruption an instrument was constructed to photograph the arc (400-3000 frames per second).
12 references.

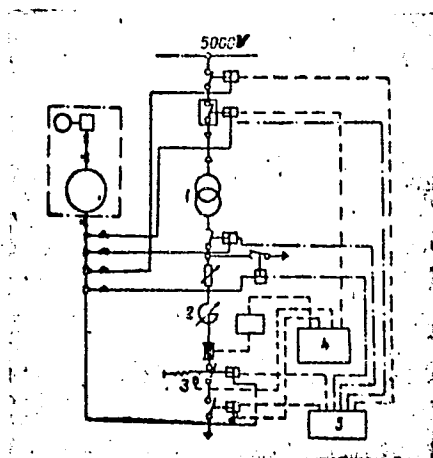
[Abstractor's note: Complete translation.]

Card 3/4

Low-voltage test station of the ...

S/196/62/000/020/017/021
E194/E155

Diagram



Card 4/4

BARBU, I., ing.; PAUN, A., ing.; VOINEA, Irina, ing.; CORCIOVEI, Emilia, ing.

Coke from noncokable coal. Pt. 6. Rev min 12 no.7:315-
317 J1 '61.

1. Colectiv al Institutului de Cercetari Metalurgice.

BARBU, Ilie, ing.; STEFANESCU, Ioan, ing.

The centenary of the first coke works in Rumania. Metalurgia
constr mas 14 no.12:1051-1056 D '62.

1. Institutul de cercetari metalurgice.

FUGARU, Constantin, ing. (Bucuresti); BARBU, Ion, ing. (Bucuresti)

Sintering contact technology used in low tension apparatus.
Electrotehnica 9 no.10:367-371 0 '61.

1. Cercetator metalurg la Institutul de Cercetari Electrotehnice
(for Fugaru). 2. Cercetator electrotehnician la Institutul de
Cercetari Electrotehnice (for Barbu).

BARBU, Ion, ing. (Bucuresti)

Construction and technology of the unitary series of rapidly
fusible cutouts with low tension 6-100 thread. Electrotehnica
10 no.7:256-265 JI '62.

1. Cercetator la Institutul de cercetari electrotehnice.

BARBU, I.

Watching for a good plan for the annual vacations and its achievement.
Munca sindic 7 no.4:58-60 Ap '63.

1. Presedinte al comitetului sindicatului fabrica de hirtie si
celuloza "Sreana Rosie", Bacau.

VINOGRADOV, C.; BARBU, I. Z.; HESSELMAN, A.

Contributions to the knowledge of iron sedimentary deposit
at Capusu (Cluj region). Studii cerc geol 8 no. 2: 235-252
'63.

1. Comunicare prezentata de academician M. Savul.

BARBU, I., ing.; NOVAC, C., ing.; GRIGORESCU, Paula, chim.

An important secondary source of power, the dry cooling of coke.
Energetica Rum 12 no.9:476-480 S '63.

BARBU, Ion, ing.

Precious metals in modern technics. St si Teh Buc 15 no.3:16-17
Mr '63.

ACCESSION NR: AP5015370

RU/0004/64/000/009/0341/0349

AUTHOR: Barbu, Ion (Engineer, Chief researcher)(Bucharest)

TITLE: Design and construction of a 30-kiloampere, 500-volt shortcircuiting device

SOURCE: Electrotehnica, no. 9, 1964, 341-349

TOPIC TAGS: electric power engineering, electric distribution equipment

Abstract [Author's English summary modified]: A description of the calculations and theoretical considerations underlying the design of the shortcircuiting device recently constructed in the laboratories of ICRT [Institutul de Cercetari Electrotehnice; Electrotechnical Research Institute], with special emphasis on the determination of the proper drive time and contact speed. Experimental results are presented to confirm the theoretically expected fact that the variation of the time constant is proportional to the square root of the admission coefficient and independent of the turn number. Orig. art. has 7 figures, 33 formulas, and 1 graph.

Card 1/2

ACCESSION NR: AP5015370

ASSOCIATION: Cercetator principal la I.C.P.E. (Chief Researcher, I.C.P.E.)

SUBMITTED: 02Apr64

ENCL: 00

SUB CODE: EE

NO REF SOV: 000

OTHER: 014

JPRS

mm
Card

2/2

I 41680-66 EWP(w)/EWP(c)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(l) IJP(c) JD

ACC NR: AP6031206

SOURCE CODE: RU/0004/65/000/005/0177/0186

AUTHOR: Avramescu, Aurel (Doctor; Engineer); Barbu, Ion (Engineer)

ORG: [Avramescu] Scientific Documentation Center, RPR Academy (Centrul de documentare stiintifica al Academiei R.P.R.); [Barbu] I.C.P.E.

TITLE: Wear tests of contacts on contactors

SOURCE: Electrotehnica, no. 5, 1965, 177-186

TOPIC TAGS: electric engineering, electric device

ABSTRACT: A report on wear tests of low-voltage interrupter contacts relating the amount of wear to the material, the current and the number of connections. The tests covered contacts made of Ag, AgCd, AgCu and AgZn; nominal currents of 10, 25, 60 and 100 amperes; and up to one million connections. For each material, wear was found to increase almost linearly with number of connections; the general conclusion reached was that the optimal contact for any concrete design situation must be determined in terms of the specific use conditions planned. Orig. art. has: 8 figures, 5 formulas and 4 tables. [Based on authors' Eng. abst.] [JPRS: 32,482]

SUB CODE: 09 / SUBM DATE: 15Feb65 / ORIG REF: 006 / SOV REF: 004
OTH REF: 019

Card 1/1 af